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Garbage collection in message passing distributed s

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Abstract:

Distributed systems use optimistic message logging for **recovery** from transition failures. Such a **recovery** is facilitated by asynchronous message logging and pointing. It is also supported by **garbage collection** which requires identifying in stable storage that are no longer needed for the process of **recovery**. For this purpose, it is necessary to keep track of message dependencies between processes. A model to keep track of state dependencies using dependency graphs has been proposed.

Index Terms:

[asynchronous message logging](#) [check-pointing](#) [dependency graphs](#) [fault tolerant computing](#) [garbage collection](#) [message dependencies](#) [message passing](#) [message passing distributed systems](#) [optimistic message logging](#) [process states](#) [reliability](#) [software fault tolerance](#) [storage](#) [storage management](#) [system recovery](#) [transient process failures](#) [asynchronous message logging](#) [check-pointing](#) [dependency graphs](#) [fault tolerant computing](#) [garbage collection](#) [message dependencies](#) [message passing](#) [message passing distributed systems](#) [optimistic message logging](#) [process states](#) [reliability](#) [software fault tolerance](#) [stable storage](#) [storage management](#) [system recovery](#) [transient process failures](#)

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